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APPLICATION NO.	FILING D	ATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/696,214	10/28/2	003	Kiri B. Amarakoon	D/A2518	7332	
25453	7590	02/02/2005		EXAMINER		
PATENT DOCUMENTATION CENTER				CHEN, SOPHIA S		
	RPORATION ON AVE., SOUT	TH, XEROX S	QUARE, 20TH FLOOR	ART UNIT	PAPER NUMBER	
ROCHESTE	R, NY 14644	•	,	2852		

Please find below and/or attached an Office communication concerning this application or proceeding.

			(1				
	Application No.	Applicant(s)					
	10/696,214	10/696,214 AMARAKOON, KIRI B.					
Office Action Summary	Examiner	Art Unit					
	Sophia S. Chen	2852					
The MAILING DATE of this c mmunication a Period for Reply	ppears on the cover sheet	with the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	1. 1.136(a). In no event, however, may eply within the statutory minimum of d will apply and will expire SIX (6) N ute, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this communicati ABANDONED (35 U.S.C. § 133).	ion.				
Status							
1) Responsive to communication(s) filed on	_						
<u> </u>	is action is non-final.						
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) <u>1-8</u> is/are pending in the application 4a) Of the above claim(s) is/are withdr 5) Claim(s) is/are allowed. 6) Claim(s) <u>1-3,5,6 and 8</u> is/are rejected. 7) Claim(s) <u>4 and 7</u> is/are objected to. 8) Claim(s) are subject to restriction and	rawn from consideration.						
Application Papers		•					
9)☑ The specification is objected to by the Examination 10)☑ The drawing(s) filed on 28 October 2003 is/an Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction. The oath or declaration is objected to by the	re: a) \square accepted or b) \square accepted in abegonic distribution accepted in abegonic fithe drawing action is required if the drawing acceptance.	vance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.121					
Priority under 35 U.S.C. § 119		•					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the prapplication from the International Bure * See the attached detailed Office action for a lie	nts have been received. nts have been received ir iority documents have be eau (PCT Rule 17.2(a)).	Application No en received in this National Stage					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 10/28/03.	Paper N	w Summary (PTO-413) lo(s)/Mail Date of Informal Patent Application (PTO-152)					

DETAILED ACTION

Drawings

- 1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: 22, 24 (page 5, line 11), 26 (page 5, line 13), 600 (page 5, line 26), 200 (page 5, line 27, etc.), 232 (page 5, last line), 234 (page 6, line 2), 236 (page 6, line 6, etc.), and 255 (page 8, line 2). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
- 2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: 38, 74, 76, and 510 (Figure 1). Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version

Art Unit: 2852

of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "500" has been used to designate both "an image forming apparatus" (Figure 1) and "a module" (page 5, paragraph [0015], line, etc.). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

4. The abstract of the disclosure is objected to because of the inclusion of legal phraseology, such as "comprising" (page 16, line 2). Correction is required. See MPEP § 608.01(b).

Page 4

Application/Control Number: 10/696,214

Art Unit: 2852

5. The abstract of the disclosure is also objected to because "a second developed image" (page 16, line 4) should be "a first developed image" to be consistent with page 5, lines 11-24 of the specification.

- 6. The disclosure is objected to because of the following informalities:
- a. Page 1, paragraph [0001], line 2, need to provide the appropriate US Pat. Application Number.
- b. Page 4, line 3, "a second developed image" should be "a first developed image" to be consistent with page 5, lines 11-24 of the specification.
- c. Page 6, paragraph [0017], line 5, need to provide the appropriate US Pat. Application Number.

Appropriate correction is required.

Claim Objections

- 7. Claims 1-8 are objected to because of the following informalities:
- a. Claim 1, line 4, "a second developed image" should be "a first developed image" to be consistent with page 5, lines 11-24 of the specification.
- b. Claim 2, line 2, "system for member for reducing" should be "system for reducing".
 - c. Claim 4, line 2, "XXX" should be "data", "information", or "mark".
- d. Claim 6, line 2, "transfer station transfer" should be "first transfer station transfers".

Art Unit: 2852

e. Claim 7, line 2, "transfer station transfer" should be "first transfer station transfers".

Appropriate correction is required.

Claim Rejections – 35 USC §102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 9. Claims 1-3, 5, and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Fletcher (US Pat. No. 5,347,353).

The patent discloses an electrographic printing machine comprising: a first photoconductive member 28; an imaging device 84 for recording a first latent image 20d on the first photoconductive member 28 to form a first (see above claim objection) developed image 20e; a first developing unit 86 for developing the first latent image 20d (column 9, line 55 to column 10, line 15; Figure 2); a second photoconductive member 11 (of image forming device 101, 102, or 103; see Figures 1 and 2 – Figure 1 shows the detailed of the image forming device), closely adjacent to the first photoconductive member 28 in a transfer region 33 (Figures 1 and 2); a second imaging device 18 (see Figure 1) for recording a second latent image on the second photoconductive member 11; a second developing unit 23 for developing the second latent image to form a second developed image 20c (column 10, lines 20-22 and Figures 1 and 2); a first

transfer station 33 for transferring the second developed image on the second photoconductive member 11 to the first photoconductive member 28 (column 10, lines

photoconductive member 28 to a recording substrate 42 (column 10, lines 53-65 and

15-35); and a second transfer station 41 for transferring developed images on the first

Figures 1 and 2).

The patent further discloses the first transfer station 33 includes a condition system (an electrical biasing member – a discharge device) 34 for reducing electrostatic force on the first photoconductive member 28 to improve transfer of the second developed image thereto (column 7, lines 10-21); the first developer unit 86 contains marking particle (black) of a different color of the second developer unit 23 (of device 101 – yellow color; column 10, lines 13-17 and 23-24); and the first transfer station 33 (see claim objection above) transfers the second develop image 20c in the same image frame as the first develop image 20e on the first photoconductive member 28 (column10, lines 30-35; the develop images 20c and 20e are inherently in the same image frame because the visible image 20f on the member 28 comprises two tones – black and yellow).

Claim Rejections - 35 USC §103

- 10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 10/696,214

Art Unit: 2852

replaceable module.

11. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fletcher

in view of Munakata (US Pat. No. 6,493,533 B1).

Fletcher, as discussed above, differs from the instant claimed invention in not disclosing a replaceable module including the second photoconductive member and the second developer unit, the replaceable module is replaceable with a second

Munakata discloses an image forming apparatus comprising a replaceable module 10 (10Y, 10M, 10C, and 10K) including a photoconductive member 13 and a developer unit 16, the replaceable module is replaceable with a second replaceable module (column 4, lines 24-37).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to apply the replaceable module as taught by Munakata to the second image forming device 101 (Figure 2) or 10 (Figure 1) (including the second photoconductive member 11 and the second developer unit 23) of Fletcher to easily replace parts by the user.

Allowable Subject Matter

12. Claims 4 and 7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Application/Control Number: 10/696,214

Art Unit: 2852

Other Prior Art

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Tombs et al. (US Pat. No. 5,715,505) discloses an image forming apparatus comprising a first photoconductive member; a first imaging device; a first developer unit; a second photoconductive member; a second imaging device; a second developer unit; a first transfer station; and a second transfer station.

May et al. (US Pat. No. 5,828,931) discloses an image forming apparatus comprising a first photoconductive member; a first imaging device; a first developer unit; a second photoconductive member; a second imaging device; a second developer unit; a first transfer station; and a second transfer station.

May et al. (US Pat. No. 5,926,679) discloses an image forming apparatus comprising a first photoconductive member; a first developer unit (clear toner); a second photoconductive member; an imaging device; a second developer unit; a first transfer station; and a second transfer station.

Suzuki et al. (JP 54-059150 A) discloses an image forming apparatus comprising a first photoconductive member; a first imaging device; a first developer unit; a second photoconductive member; a second imaging device; a second developer unit; a first transfer station; and a second transfer station.

Oda et al. (JP 62-115479 A) discloses an image forming apparatus comprising a first photoconductive member; a first imaging device; a first developer unit; a second

Art Unit: 2852

photoconductive member; a second imaging device; a second developer unit; a first transfer station; and a second transfer station.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sophia S. Chen whose telephone number is (571) 272-2133. The examiner can normally be reached on M-F (7:00-3:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Arthur Grimley can be reached on (571) 272-2136. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sophia S. Chen Primary Examiner Art Unit 2852

Ssc January 31, 2005